

\*\*\* It is now 5/18/2009 3:59:32 PM \*\*\*

[File 347] JAPIO Dec 1976-2009/Jan(Updated 090503)

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S1	38981	S MUFFL??? OR SILENC??? OR RESONAT???
S2	40543	S (RAIS??? OR ELEVAT??? OR INCREAS???? OR RISIN?? OR RISE? ? OR BOOST???) (3N) PRESSUR?
S3	34856	S (PIPE OR THROAT OR OPENING OR OUTLET) (3N) (SIZE OR DIAMETER OR SHAP???)
S4	3019	S S3 (4N) (REDUC???? OR DECREAS??? OR SMALLER OR SHRINK??? OR CONTRACT???)
S5	210	S S1 AND S2
S6	0	S S4 AND S5
S7	4829	S THROTL??? (5N) CLOS???
S8	3	S S5 AND S7
S9	124825	S (HIGH?? OR INCREAS??? OR GREATER OR PEAK OR INTENSE OR LARG?? OR MAX?????) (4N) PRESSUR?
S10	604	S S1 AND S9
S11	5	S (S7 OR S4) AND S10
S12	3	S S11 NOT S8
S13	0	S AU=ZHANG GUOBIAO
S14	6454	S IC=(F01N-001/08 OR F01N-001/16 OR F04B-039/00 OR F04C-029/06)
S15	476	S S14 AND (S2 OR S9)
S16	2	S S15 AND (S7 OR S4)
S17	1	S S16 NOT (S8 OR S12)
S18	112427	S (REDUC???? OR DECREAS??? OR LOW?? OR DWIND???? OR DIMINISH??? OR PARTIAL?? OR MIN OR MINIMUM? ?) (4N) PRESSUR?
S19	5657	S S3 (4N) (INCREAS??? OR LARG?? OR BIG??? OR ENLARG????? OR WIDE????? OR LENGTH????? OR EXPAN????? OR OUTWARD??)
S20	647	S S18 AND S1
S21	9	S S20 AND (S4 OR S19)
S22	201	S S18 AND (S4 OR S19)
S23	3	S S14 AND S22
S1	38981	S MUFFL??? OR SILENC??? OR RESONAT???
S2	34856	S (PIPE OR THROAT OR OPENING OR OUTLET) (3N) (SIZE OR DIAMETER OR SHAP???)
S3	8690	S WALL (3N) (SIZE OR DIAMETER OR SHAP???)
S4	43045	S S2:S3
S5	1221673	S (PIPE? ? OR THROAT? ? OR OPENING? ? OR OUTLET? ? OR INLET? ? OR WALL? ?)
S6	158977	S S5 (4N) (SHRINK??? OR NARROW??? OR CLOSES OR CLOSING OR SKINN??? OR CONTRACT??? OR SMALL?? OR DECREAS???? OR REDUC?????)
S7	35366	S S5 (4N) (LARG?? OR BIG??? OR ENLARG????? OR WIDE????? OR EXPAN?????)
S8	46345	S (RAIS??? OR ELEVAT??? OR INCREAS???? OR RISIN?? OR RISE? ? OR BOOST??? OR EXCEED??? OR SURPASS??? OR SURG??? OR ASCEND??? OR ESCALAT??? OR JUMP??? OR RAMP???) (3N) (PRESSUR? OR COMPRESSION? ?)
S9	108663	S (REDUC????? OR DECREAS??? OR LOW?? OR DWIND????? OR DIMINISH??? OR PARTIAL?? OR MIN OR MINIMUM? ?) (3N) (PRESSUR? OR COMPRESSION? ?)
S10	3040	S S6 AND S8
S11	27	S S1 AND S10
S12	402	S S6 (7N) S8
S13	2	S S1 AND S12
S14	10	S S4 AND S12
S15	10	S S14 NOT S13
S16	62225	S (PIPE? ? OR THROAT? ? OR OPENING? ? OR OUTLET? ? OR INLET?? OR WALL? ?) (3N) (SIZE OR DIAMETER OR SHAP??? OR AREA? ?)
S17	30	S S12 AND S16
S18	20	S S17 NOT S13:S14

S19 255224 S (SIZE OR DIAMETER OR SHAP??? OR AREA? ?) (5N) (SHRINK??? OR  
 NARROW??? OR CLOSES OR CLOSING OR SKINN??? OR CONTRACT??? OR SMALL?? OR DECREAS???  
 OR REDUC?????)  
 S20 164899 S (SIZE OR DIAMETER OR SHAP??? OR AREA? ?) (5N) (LARG?? OR BIG??? OR  
 ENLARG????? OR WIDE????? OR EXPAN?????)  
 S21 194 S S7(7N)S9  
 S22 5 S S21 AND S1  
 S23 92 S S21 AND (GAS?? OR AIR OR EXHAUST)  
 S24 38 S S16 AND S21  
 S25 1 S S22 AND S24  
 S26 42 S S22 OR S24  
 S27 41 S S26 NOT S18  
 S28 13 S S23 AND S27  
 S29 57067 S (RAIS??? OR ELEVAT??? OR INCREAS???? OR RISIN?? OR RISE? ? OR  
 BOOST??? OR EXCEED??? OR SURPASS??? OR SURG??? OR ASCEND??? OR ESCALAT??? OR JUMP???  
 OR RAMP????) (5N) (PRESSUR? OR COMPRESSION? ?)  
 S30 125213 S (REDUC????? OR DECREAS??? OR LOW?? OR DWIND????? OR DIMINISH??? OR  
 PARTIAL?? OR MIN OR MINIMUM? ?) (5N) (PRESSUR? OR COMPRESSION? ?)  
 S31 426 S S19 (7N) S29  
 S32 465 S S20 (7N) S30  
 S33 883 S S31:S32  
 S34 84 S S33 AND S16  
 S35 1 S S34 AND S1  
 S36 10 S S24 AND (GAS?? OR AIR OR EXHAUST)  
 S37 28 S S25:S26 NOT (S28 OR S18)  
 S38 27 S S37 NOT S13:S14  
 S39 10 S S1 AND S33  
 S40 10 S S39 NOT (S28 OR S18 OR S13:S14)  
 S41 115031 S (SIZE OR DIAMETER OR SHAP??? OR AREA? ?) (5N) (SHRINKING OR  
 NARROWING OR CLOSING OR CONTRACTED OR NARROWED OR CONTRACTING OR DECREAS??? OR  
 REDUC?????)  
 S42 25615 S (SIZE OR DIAMETER OR SHAP??? OR AREA? ?) (5N) (ENLARGING OR  
 ENLARGED OR WIDEN??? OR EXPANDING OR EXPANDED)  
 S43 302 S S29 (8N) S41  
 S44 111 S S30 (8N) S42  
 S45 410 S S43:S44  
 S46 130892 S (PIPE? ? OR THROAT? ? OR OPENING? ? OR OUTLET? ? OR INLET?? OR  
 WALL? ?) (4N) (GAS?? OR AIR OR EXHAUST)  
 S47 25 S S45 AND S46  
 S48 24 S S47 NOT (S28 OR S18 OR S13:S14 OR S39)  
  
 S1 1318 S (THROTTL??? OR VALV??? OR MULTIVALV???) (4N) (ENLARGING OR ENLARGED  
 OR WIDEN??? OR EXPANDING OR EXPANDED)  
 S2 87692 S (THROTTL??? OR VALV??? OR MULTIVALV???) (4N) (SHRUNK?? OR SHRINKING  
 OR NARROWING OR CLOS??? OR CONTRACTED OR NARROWED OR CONTRACTING OR DECREAS??? OR  
 REDUC?????)  
 S3 47508 S (RAISING OR ELEVATING OR ELEVATED OR RAISED OR INCREASING OR  
 INCREASED OR RISIN?? OR RISE? ? OR BOOST??? OR SURG??? OR ASCEND??? OR ESCALAT??? OR  
 JUMP??? OR RAMP????) (5N) (PRESSUR? OR COMPRESSION? ? OR FLOW)  
 S4 113243 S (REDUC????? OR DECREAS??? OR LOWER????? OR DWIND????? OR DIMINISH??? OR  
 MIN OR MINIMUM? ?) (5N) (PRESSUR? OR COMPRESSION? ? OR FLOW)  
 S5 59 S S1 (7N) S4  
 S6 1232 S S2 (7N) S3  
 S7 38981 S MUFFL??? OR SILENC??? OR RESONAT???  
 S8 64112 S (PIPE? ? OR THROAT? ? OR OPENING? ? OR OUTLET? ? OR INLET?? OR  
 WALL? ?) (3N) (SIZE? ? OR DIAMETER? ? OR SHAP??? OR AREA? ?)  
 S9 2 S S5 AND S7:S8  
 S10 30 S S6 AND S7:S8  
 S11 30 S S10 NOT S9

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S1 23 S AU=ZHANG, GUOBIAO

S2 1 S AU=ZHANG GUOBIAO

S3 281969 S (RAISING OR ELEVATING OR ELEVATED OR RAISED OR INCREASING OR INCREASED OR RISEIN?? OR RISE? ? OR BOOST??? OR SURG??? OR ASCEND??? OR ESCALAT??? OR JUMP??? OR RAMP???) (5N) (PRESSUR? OR COMPRESSION? ?)

S4 389692 S (REDUC???? OR DECREAS??? OR LOWER??? OR DWIND???? OR DIMINISH??? OR MIN OR MINIMUM? ?) (5N) (PRESSUR? OR COMPRESSION? ?)

S5 542995 S (SIZE OR DIAMETER OR SHAP??? OR AREA? ?) (5N) (SHRUNK?? OR SHRINKING OR NARROWING OR CLOSING OR CONTRACTED OR NARROWED OR CONTRACTING OR DECREAS??? OR REDUC?????)

S6 29998 S (SIZE OR DIAMETER OR SHAP??? OR AREA? ?) (5N) (ENLARGING OR ENLARGED OR WIDEN??? OR EXPANDING OR EXPANDED)

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S7          24    S S1:S2
S8          10    RD  (unique items)
S9         2527   S S3 (7N) S5
S10         81    S S4 (7N) S6
S11        391715 S MUFFL??? OR SILENC??? OR RESONAT???
S12        141387 S (PIPE? ? OR THROAT? ? OR OPENING? ? OR OUTLET? ? OR INLET?? OR
WALL? ?) (3N) (SIZE? ? OR DIAMETER? ? OR SHAP??? OR AREA? ?)
S13         9    S S9:S10 AND S11
S14        104   S S9:S10 AND S12
S15         9    S S13
S16         8    RD  (unique items)
S17        104   S S14
S18         56   RD  (unique items)
S19        203103 S (PIPE? ? OR THROAT? ? OR OPENING? ? OR OUTLET? ? OR INLET?? OR
WALL? ?) (4N) (GAS?? OR AIR OR EXHAUST? ?)
S20         10   S S18 AND S19

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